

AMENDMENTS TO THE SPECIFICATION

Please amend the first complete paragraph (starting on line 9) of page 32 as follows:

An optical deflection ~~magie~~ magnetic field sensor is preferably utilized where magnetic field monitoring is desired. The microsensor comprises an aluminum beam that is suspended above a micromachined silicon substrate using four aluminum support arms. These arms hold the beam at its nodal points, which are points of zero displacement when the beam vibrates at the fundamental resonant frequency. A sinusoidal current is forced to flow through one support arm, through the length of the beam, and out through the other support arm. The frequency of the sinusoidal current is essentially identical to that of the mechanical resonant frequency of the beam. In the absence of a magnetic field, the beam is unaffected. However, in the presence of a magnetic field oriented perpendicular to the beam, a magnetic force causes deflection of carriers, which in turn causes the beam to vibrate at its resonant frequency. The amplitude of the vibration is directly proportional to the magnetic field strength, which can be measured using a laser.